

JAPAN ABSTRACT
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TI Polyimide moulding useful for sliding material - obtd. by heat-compressing polyimide resin compsn. contg. inorganic fibrous filler e.g. glass.

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Polyimide moulding is prepd. by heat-compressing a polyimide resin compsn. which is composed of 35 - 85 wt.% of an aromatic polyimide resin powder, 10 - 40 wt.% of an inorganic fibrous filler having an average fibre dia. of 0.1 - 15 micron and an aspect ratio of 10 - 100, and 5 - 25 wt.% of a solid lubricating agent having an average particle size of 1 - 30 micron.

Pref. the inorganic fibrous filler is glass, carbon, potassium titanate whisker, ceramic, boron or metal. Pref. the solid lubricating agent is fluororesin, molybdenum disulphide, tungsten disulphide, graphite, talc, lead oxide, graphite fluoride, carbon, mica, boron nitride, lead, copper, bronze or silver powder(s).

USE/ADVANTAGE - Moulding is used for sliding materials of electric apparatus, motor -cars, etc. The moulding has good machining performance for cutting, etc.. Pref. aromatic polyimide resins are polymerisation prod. of pyromellitic acid, 3,3',4,4'-biphenyltetracarboxylic acid, or dianhydrides of the acids, etc. with 4,4'-diaminodiphenylether, 4,4'-diaminobenzophenone, etc..

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